

Applicant : Kreutzer *et al.*
Serial No. : 10/612,179
Filed : July 2, 2003
Page : 2 of 10

Attorney's Docket No.:
14174-104US5 / RIB001.3USD4

Amendments to the Specification:

On page 1, on the line above the title, please add the following:

TITLE OF THE INVENTION

On page 1, following the section titled "Related Applications," which was added by the preliminary amendment filed July 2, 2003, please add the following new paragraphs:

STATEMENT REGARDING FEDERALLY SPONSORED
RESEARCH OR DEVELOPMENT

Not Applicable.

INCORPORATION BY REFERENCE OF MATERIAL SUBMITTED
ON A COMPACT DISC

Not applicable.

BACKGROUND OF THE INVENTION

Field of the Invention

Please delete the paragraph beginning at page 1, line 4, which begins "The invention relates" and replace it with the following new paragraph:

The present invention is in the field of gene expression inhibition using double stranded oligonucleotides.

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Please add the following new paragraph before the paragraph beginning at page 1, line 9:

Description of the Art

Methods of inhibiting gene expression using double stranded oligonucleotides have recently been described.

Please add the following new paragraphs before the paragraph beginning at page 2, line 23:

BRIEF SUMMARY OF THE INVENTION

The present invention provides methods and compositions for inhibiting gene expression using double stranded RNA molecules as well as double stranded RNA molecules containing modified bases.

BRIEF DESCRIPTION OF THE FIGURES

Figure 1 shows the schematic representation of a plasmid for the in vitro transcription with T7- and SP6- polymerase.

Figure 2 shows RNA following electrophoresis on an 8% polyacrylamide gel and staining with ethidium bromide.

Figure 3 shows a representation of radioactive RNA transcripts following electrophoresis on an 8% polyacrylamide gel with 7M urea by means of an instant imager.

Figure 4 a-e shows Texas Red and YFP fluorescence in murine fibroblasts.

DETAILED DESCRIPTION OF THE INVENTION

Please delete the paragraph at page 2, line 31, which begins "This object is..."

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Please delete the paragraphs at page 9, lines 10-24, which begin "Fig. 1 shows..."

Please add the following abstract on new page 28, line 1:

ABSTRACT

The present invention provides methods and compositions for inhibiting gene expression using double stranded RNA molecules that are between 15 and 21 nucleotides in length and are complementary to a target gene sequence.